

Internship Posting Date: Spring 2018  
Internship ID #: 10007



Application Deadline: January 15, 2018

## New Jersey Department of Environmental Protection Meteorology Internship Opportunity

Internship: ☐ Summer ☐ Fall Semester ☐ Winter Break ☒ Spring Semester

Internship Type: ☐ Co-op\* ☒ Credit-Bearing\* ☒ Non-credit

Internship Pay: ☒ Non- Paid ☐ Paid Pay Rate: \_\_\_\_\_

Intern Level: ☒ Graduate School ☒ Undergraduate

### Suggested Background or Knowledge:

Meteorology with Environmental Science; Graphical Information Systems (GIS) a plus

### DEP Program Area and Work Unit Offering the Internship:

Air Quality, Energy and Sustainability  
Division of Energy Security and Sustainability

### Internship Location:

401 East State Street, 2<sup>nd</sup> floor, Trenton, NJ 08625

### Internship Project Description:

Visualizing Elevated Ozone Air Pollution: Continue development of a 4D analysis framework animating the travel of an air parcel from its origin, using atmospheric conditions / weather patterns to track the parcel as it moves across the eastern U.S. Along the path precursor emissions are added, ultimately resulting in unhealthy ozone concentrations in New Jersey. This project involves the use of ArcGIS Pro, Google Earth Pro, and / or R software to obtain, develop, and depict factors contributing to ozone formation and moving the air parcel through time. The project will involve analyzing one to three episodes of high ozone concentrations important to the air quality in New Jersey and/or to the adjacent areas. The objective of this project is to develop a simple visual to help understand the many factors that affect ozone concentrations.

### Estimated Project Duration and Suggested Weekly Work Schedule:

To ensure sufficient time to complete the project, we require Interns work a minimum of 6 weeks with no less than 14 hours per week at the NJDEP in Trenton, NJ.

### Description of DEP Program Area/Work Unit Offering the Internship:

For more information about AQES and its activities, visit us at <http://www.nj.gov/dep/aqes>.

### Internship Sponsor:

Chris Salmi, Senior Advisor, Division of Energy Security and Sustainability  
Contact Information: [chris.salmi@dep.nj.gov](mailto:chris.salmi@dep.nj.gov) or (609) 292-6711

**To apply, please submit the following to [AQESintern@dep.nj.gov](mailto:AQESintern@dep.nj.gov) by January 15, 2018:**  
completed application; resume; brief writing sample; most recent transcript (unofficial copy acceptable);  
and three references (name and phone number for either professional or educational contacts)

**Please include "Ozone Air Pollution" in the subject line.**

\* Co-op and Credit-Bearing Internships require approval of the internship by the student's Academic Department. The DEP Internship Sponsor has agreed to work with the student's Academic Department to provide a credit-worthy learning environment that benefits DEP goals. The student is responsible for all costs associated with receiving the credits from their educational institution.